

Atty. Docket No. Q66004
PATENT APPLICATION

AMENDMENT UNDER 37 C.F.R. § 1.111
U.S. Application No. 09/964,337

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (Previously Presented) A color reproduction characteristic display apparatus for displaying color reproduction characteristics wherein an association between coordinates of a first color space defining a color on image data and coordinates of a second color space defining a color on an image are defined in accordance with a device for mediating between the image data and the image, said color reproduction characteristic display apparatus comprising:

a range designation section for designating a desired coordinate range in said first color space in accordance with an operation;

an image display section for displaying a color reproduction image in which there are plotted coordinate points on said second color space associated with coordinates within the coordinate range designated by said range designation section of coordinates of lattice points wherein said first color space is partitioned as a lattice; and

wherein said image display section displays the color reproduction image together with information as to a distance in said second color space, said distance noting a color difference of, and corresponding to, two points on the color reproduction image designated by a display plot designation section.

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2. (Original) A color reproduction characteristic display apparatus according to claim 1, wherein said image display section optionally displays the color reproduction image on a two-dimensional display basis or a three-dimensional display basis in accordance with an operation.

3. (Previously Presented) A color reproduction characteristic display apparatus according to claim 1, further wherein said display plot designation section designates a desired point of points plotted on the color reproduction image in accordance with an operation, wherein said image display section displays the color reproduction image and in addition coordinate values on said first color space and coordinate values on said second color space, which correspond to the point on the color reproduction image designated by said display plot designation section.

4. (Previously Presented) A color reproduction characteristic display apparatus according to claim 1, further wherein said display plot designation section designates a desired point of points plotted on the color reproduction image in accordance with an operation.

5. (Original) A color reproduction characteristic display apparatus according to claim 1, wherein said image display section has a mode wherein a plurality of color reproduction images associated with a plurality of output devices is displayed on a superposing basis.

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6. (Previously Presented) A color reproduction characteristic display program storage medium storing a color reproduction characteristic display program which causes a computer to operate as a color reproduction characteristic display apparatus for displaying color reproduction characteristics wherein an association between coordinates of a first color space defining a color on image data and coordinates of a second color space defining a color on an image are defined in accordance with a device for mediating between the image data and the image, said color reproduction characteristic display program comprising:

a range designation section for designating a desired coordinate range in said first color space in accordance with an operation;

an image display section for displaying a color reproduction image in which there are plotted coordinate points on said second color space associated with coordinates within the coordinate range designated by said range designation section of coordinates of lattice points wherein said first color space is partitioned as a lattice; and

wherein said image display section displays the color reproduction image together with information as to a distance in said second color space, said distance noting a color difference of, and corresponding to, two points on the color reproduction image designated by a display plot designation section.

7. (Cancelled).

8. (Previously Presented) The apparatus of claim 1, wherein the device for mediating:

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relates a color conversion for the image data to a device-independent color space as a first transform; relates a color conversion for the image to the device-independent color space as a second transform; and inter-relates the first transform and an inverse of the second transform.

9. (Previously Presented) A color reproduction characteristic display apparatus for displaying color reproduction characteristics wherein an association between coordinates of a first color space, said first color space being device-dependent and defining a color on image data, and coordinates of a second color space, said second color space being device-independent and defining a color on an image, said first and second color spaces and associated coordinates being defined in accordance with a device for mediating between the image data and the image, said color reproduction characteristic display apparatus comprising:

a range designation section for designating a desired coordinate range in said first color space in accordance with an operation; and

an image display section for displaying a color reproduction image in which there are plotted coordinate points on said second color space associated with coordinates within the coordinate range designated by said range designation section of coordinates of lattice points wherein said first color space is partitioned as a lattice.

10. (New) The color reproduction characteristic display apparatus of claim 1, further wherein said image display section plots a three-dimensional room around said color reproduction image.

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11. (New) The color reproduction characteristic display program storage medium storing a color reproduction characteristic display program which causes a computer to operate as a color reproduction characteristic display apparatus for displaying color reproduction characteristics of claim 6, further wherein said image display section plots a three-dimensional room around said color reproduction image.

12. (New) The color reproduction characteristic display apparatus of claim 9, further wherein said image display section plots a three-dimensional room around said color reproduction image.

13. (New) The color reproduction characteristic display apparatus of claim 1, further wherein said image display section includes at least two different types of rotation for posturing a final color reproduction image.

14. (New) The color reproduction characteristic display program storage medium storing a color reproduction characteristic display program which causes a computer to operate as a color reproduction characteristic display apparatus for displaying color reproduction characteristics of claim 6, further wherein said image display section includes at least two different types of rotation for posturing a final color reproduction image.

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15. (New) The color reproduction characteristic display apparatus of claim 9, further wherein said image display section includes at least two different types of rotation for posturing a final color reproduction image.

16. (New) The color reproduction characteristic display apparatus of claim 13, wherein said at least two different types of rotation for posturing include: i) follow rotation and ii) absolute rotation.

17. (New) The color reproduction characteristic display program storage medium storing a color reproduction characteristic display program which causes a computer to operate as a color reproduction characteristic display apparatus for displaying color reproduction characteristics of claim 14, wherein said at least two different types of rotation for posturing include: i) follow rotation and ii) absolute rotation.

18. (New) The color reproduction characteristic display apparatus of claim 15, wherein said at least two different types of rotation for posturing include: i) follow rotation and ii) absolute rotation.

19. (New) The color reproduction characteristic display apparatus of claim 16, wherein said follow rotation comprises displaying a color reproduction image of a posture which is rotated by a rotary angle according to an operating amount around an axis in accordance with an

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operation, and said absolute rotation comprises displaying a color reproduction image of a posture beginning at an initial state and the rotation around various axes are performed in a named order.

20. (New) The color reproduction characteristic display program storage medium storing a color reproduction characteristic display program which causes a computer to operate as a color reproduction characteristic display apparatus for displaying color reproduction characteristics of claim 17, wherein said follow rotation comprises displaying a color reproduction image of a posture which is rotated by a rotary angle according to an operating amount around an axis in accordance with an operation, and said absolute rotation comprises displaying a color reproduction image of a posture beginning at an initial state and the rotation around various axes are performed in a named order.

21. (New) The color reproduction characteristic display apparatus of claim 18, wherein said follow rotation comprises displaying a color reproduction image of a posture which is rotated by a rotary angle according to an operating amount around an axis in accordance with an operation, and said absolute rotation comprises displaying a color reproduction image of a posture beginning at an initial state and the rotation around various axes are performed in a named order.

22. (New) The color reproduction characteristic display apparatus of claim 1, further wherein said distance is displayed as a graphical difference of a distance between lattice points.

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23. (New) The color reproduction characteristic display program storage medium storing a color reproduction characteristic display program which causes a computer to operate as a color reproduction characteristic display apparatus for displaying color reproduction characteristics of claim 6, further wherein said distance is displayed as a graphical difference of a distance between lattice points.

24. (New) The color reproduction characteristic display apparatus of claim 9, further wherein said distance is displayed as a graphical difference of a distance between lattice points.